8cm

10cm

Calculate the volume.
Give your answer in terms of π

$\pi \times 4^2 \times 10$

160π cm^3

A shop is having a sale.
There is a 30% discount on all TVs and 20% discount on all DVD players.

In the sale, Wilson buys a TV for £224 and a DVD player for £48.

How much would the TV and DVD player cost normally?

$224 \div 0.7 = £320$ TV
$48 \div 0.8 = £60$ DVD player

total £380

A radioactive substance decays with time.
The mass of the substance reduces by 9% each year.

How many years will it take for 800kg of the substance to decay to a mass of less than 100kg?
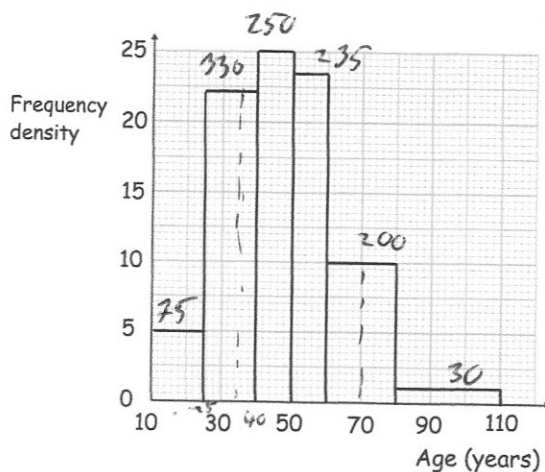
800×0.91^y

22 years = 100.46 --
23 years = 91.42 --

23 years

The histogram shows the distribution of the ages of the members of a cricket club.
30 members are between 80 and 110.

Work out how many members are between 25 and 50.

$330 + 250 = 580$

Calculate an estimate of the number of members who are between 35 and 70.

$110 + 250 + 235 + 100$

695